

PROJECT DESCRIPTION

THIS PHASE OF M.O.T. INVOLVES THE INSTALLATION OF A TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF MD 216 AND LEISHEAR ROAD IN HOWARD COUNTY. MD 216 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

I. NORMAL OPERATION

THIS INTERSECTION SHALL OPERATE IN A THREE PHASE SEMI-ACTUATED MODE WITH THE LEISHEAR ROAD SOUTHBOUND LEFT TURN PHASE OPERATING IN A LEAD PHASE. THE LEISHEAR THROUGH MOVEMENTS SHALL OPERATE CONCURRENTLY. THE MD 216 MOVEMENTS SHALL OPERATE ALONE.

CONTROLLER REQUIREMENTS

A FULLY-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER IN A BASE-MOUNTED SYSTEM READY CABINET HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

PROJECT CONTACTS

CONTACTS FOR DISTRICT 7:

MR. JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8140

MR. JAMES BUCKALEW
DISTRICT UTILITIES ENGINEER
PHONE: (301) 624-8115

MR. DAVE COYNE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 624-8105

THE POWER COMPANY REPRESENTATIVE:
MR. BILL HARTMAN
BG&E POWER COMPANY
PHONE: (410) 291-3570

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY:

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7676

MS. DARLENE EIDE
SIGNAL SHOP WAREHOUSE
410-787-7668

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
971020	1 EA.	TRAFFIC RESPONSIVE MASTER CONTROLLER AND CABINET - BASE MOUNT
973023	1 L.S.	SHEET ALUMINUM SIGNS TO CONSIST OF: - 1 EACH R10-12 (36"x42") MAST ARM MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

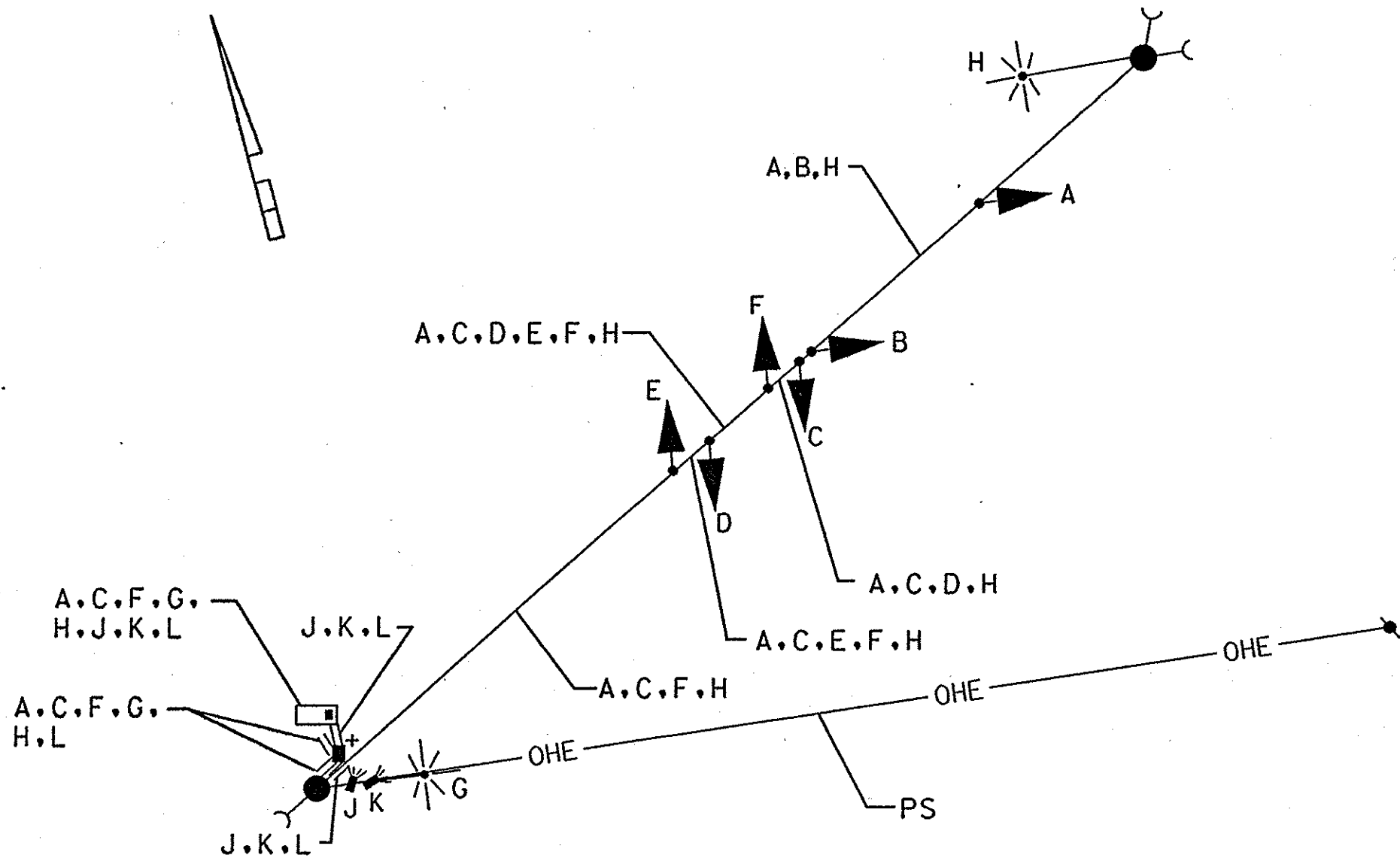
CATEGORY CODE NO.	QUANTITY	DESCRIPTION
585462	1 L.S.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
585624	1 L.S.	24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
800000	1 L.S.	50 FT WOOD POLE WITH BACKGUY AND ASSEMBLY
800000	1 L.S.	2 INCH WEATHERHEAD
800000	1 L.S.	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
800000	1 L.S.	20 FOOT LIGHTING ARM ON WOOD POLE
805015	1 L.S.	2 INCH ELECTRICAL CONDUIT - GALVANIZED RISER
801004	1 L.S.	CONCRETE FOR SIGNAL FOUNDATION
802501	1 L.S.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	1 L.S.	3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805140	1 L.S.	4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
807205	1 L.S.	ELECTRIC UTILITY SERVICE EQUIPMENT 120/240V 60 AMPS
811001	1 L.S.	ELECTRICAL HANDHOLE
816001	1 L.S.	VIDEO DETECTION CAMERA
816005	1 L.S.	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
818052	1 L.S.	STEEL POLE WITH A SINGLE 70 FT. MAST ARM
831010	1 L.S.	250 WATT HIGH PRESSURE SODIUM LUMINAIRE WITH PHOTOCELL
837001	1 L.S.	GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH
860272	1 L.S.	12 IN. TRAFFIC SIGNAL HEAD SECTION
861107	1 L.S.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	1 L.S.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
861116	1 L.S.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
871020	1 L.S.	INSTALL TRAFFIC RESPONSIVE MASTER CONTROLLER AND CABINET - BASE MOUNT
869101	1 L.S.	STEEL SPAN WIRE - 1/4 INCH DIAMETER
869102	1 L.S.	STEEL SPAN WIRE - 3/8 INCH DIAMETER
866104	1 L.S.	20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

QUANTITY	DESCRIPTION
NONE	

- NOTES: 1. THE CONTRACTOR SHALL NOTIFY THE SHA AT 410-787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.
2. ALL EQUIPMENT TO BE REMOVED AND NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



WIRING KEY

A, B, C, D, E	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	J, K	VIDEO DETECTION CAMERA TO CONTROLLER CABLE
F	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	L	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
G, H	2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)	+ - 3/4 IN. x 10 FT. GROUND ROD	
PS		PROPOSED OVERHEAD SERVICE TO BE PROVIDED BY BG&E	

PHASE CHART

	1	2	3	4	5	6
	(R)	(R)	(R)	(R)	(R)	(R)
	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	(G)	(G)	(G)	(G)	(G)	(G)
PHASE 2	G	G	R	R	R	R
2 CHANGE	Y	Y	R	R	R	R
PHASE 4+7	R	R	R	R	*G-/G	G
4+7 CHANGE	R	R	R	R	*Y-/G	G
PHASE 4+8	R	R	G	G	G	G
4+8 CHANGE	R	R	Y	Y	Y	Y
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/Y	FL/Y

NOTE: SPECIAL PROGRAM FUNCTION FOR PHASE 4+8
MAINLINE YELLOW FLASH AND PHASE 2 RED FLASH.

M.O.T. PHASE I

SG-4



RUMMEL, KLEPPER
& KAHL, LLP

CONSULTING ENGINEERS

81 MOSHER STREET
BALTIMORE, MARYLAND 21217



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD 216 AND LEISHEAR ROAD

GENERAL INFORMATION PLAN

DESIGNED BY: HEH	F.A.P. NO. AC-STP-G-3605(2N)	TS NO. TS-1570D	SHEET NO.
CHECKED BY: DAE/BLB	S.H.A. NO. H03065171	T.I.M.S. NO. F-513	5 OF 35
SCALE: 1"=20'	COUNTY: HOWARD	LOG MILE: 13021602.68	
DATE: MAY 21, 2003			